

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Algebra Pd \_\_\_\_\_

**Weekend Word Problem #5: Sticker Competition**

**The Situation:** Kayla and Alex are collecting stickers to help their class win the quarter competition. They currently have forty-two stickers and have a plan to earn four stickers per day.

If  $d$  = # of days of the sticker competition, the expression  $4d + 42$  will represent the total number of stickers they have depending on the day.

1. If there are 5 days left in the sticker competition, Kayla and Alex can calculate their total number of stickers via substitution:

$$4d + 42$$

$$4(5) + 42 = 20 + 42 = 62 \text{ stickers}$$

**Using the example above for guidance, how many total stickers will Kayla and Alex have if there are 7 days left in the competition?**

2. If there are eleven days left in the competition, how many total stickers will Kayla and Alex have?

3. If there are four WEEKS left in the competition, how many total stickers will Kayla and Alex have? (Assume there are 5 school days in every week.)

4. Do you believe you could have created the expression for this situation on your own? Why or why not? Please be honest and specific. Write at least THREE complete sentences and ECHO the prompt.

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CHALLENGE: Now, Kayla and Alex are planning ahead. They have a goal to beat F Period and want to have a total of 490 stickers. Make and solve an EQUATION using the expression from the situation and their desired number. (Hint: expression = 490).